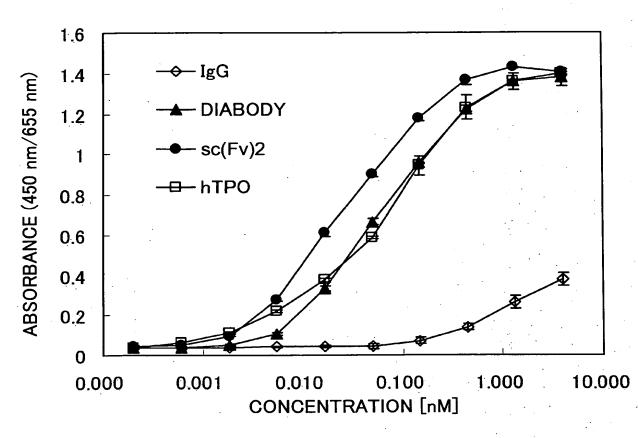
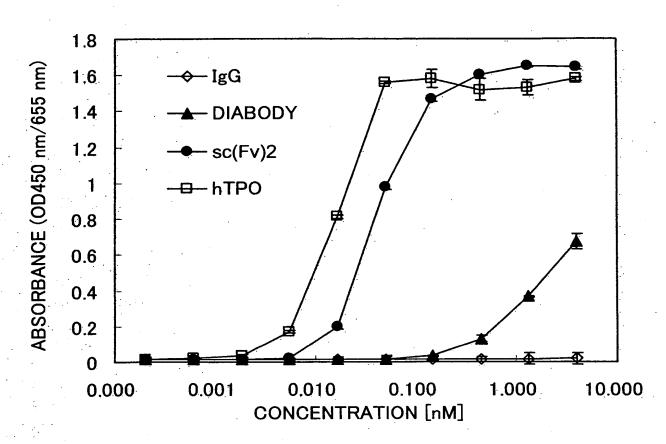
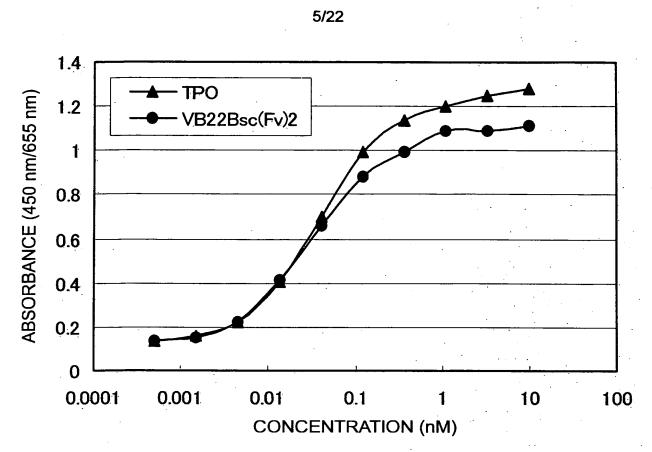


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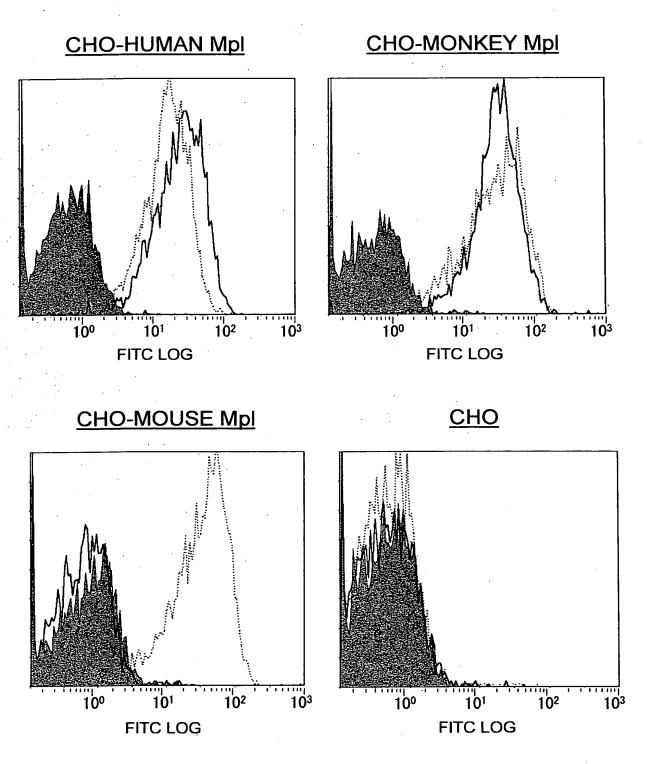
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		······································	CDR1		C	DR2
VA7		QVQLQQSGPELVKPGASVKISCKASGYAFS	SSWMN	WVKQRPGKGLI	WIG RTYPGDG	DTNYNGKFKG
VA130		QVQLQQSGPELVKPGASVKISCKASGYAFS	SSWMN	WVKQRPGKGLI	EWIG RIYPGDG	DTNYNGKFKG
VA259		QVQLQQSGPELVKPGASVKISCKASGYAFS	SSWMN	WVKQRPGKGLI	EWIG RIYPGDG	ETNYNGKFKG
VB17B		QVQLQQSGPELVKPGASVKISCKASGYTFS	SSWMN	WVKQRPGKGLI	EWIG RIYPGDG	DTNYNGKFKG
VB12B		QVQLQQSGPELVKPGASVKISCKASGYAFS	RSWMN	WVKQRPGKGLI	EWIG RIYPGDO	DTNYNGKFKG
VB140		QVQLQQSGPELVKPGASVKISCRAFGYAFS	NSWMN	WVKQRPGKGLI	EWIG RIYPGDO	ETNNNGKFKG
VB33		QVQLQQPGAELVKPGASVKLSCKASGYTFT	NYWVN	WVKQRPGRGLI	EWIG RIHPSDS	ETHCNQKFKR
VB45B		QVQLQQSGPELVKPGASVKISCKASGYAFS	SSWMN	WVKQRPGKGLI	EWIG RIYPGDO	ETNNNGKFKG
VB8B		QVQLQQSGPELVKPGASVKISCKASGYAFS	TSWMN	WVKQRPGKGL	EWIG RIYPGDO	EANYNGKFKG
VB115		QVQLQQSGPELVKPGASVKISCKASGYAFS	SSWMN	WVKQRPGKGPI		ETNYNGKFKG
VB14B		QVQLQQSGPELLNPGASVKISCKASGYAFS	RSWMN	WVKQRPGKGL	EWIG RIYPGDO	ETNYNGKFKG
VB22B		QVQLQQSGPELVKPGASVKISCKASGYAFT	NSWMN	WVKQRPGKGLI		ETIYNGKFRV
VB16		QVQLQQPGTELVRPGASVKLSCKASGYTFT	DYWVN	WVKQRPGRGL		ETHYNQKFKN
VB157		QVQLQQPGAELVKPGASVKLSCKASGYTFT	DYWMN	WVKQRPGRGL	_	SETHCSQKFKN
VB4B		QVQLQQSGPELVKPGASVKISCKASGYAFT	NSWMN	WVRQRPGKGL	1	ETIYNGKFRV
VB51		QVQLQQSGPELVKPGASVKISCKASGYAFS	NSWMN	WVNQRPGKGL	EWIG RIYPGDO	DTIYNGNFKG
				CDR3		
VA7		KATLTADKSSSTAYMQLSSLTSEDSAVYFC	AR GWII	LADGGYSFAY	WGQGTLVTVSA	(SEQ ID NO: 124)
VA130		KATLTADKSSSTAYIQLSSLTSEDSAVYFC		DYSFAY	WGQGTLVTVSA	(SEQ ID NO: 126)
VA259	·	KATLTADKSSNTAYMQLSSLTSEDSAVYFC	AR GFGI	DYSFAY	WGQGTLVTVSA	(SEQ ID NO: 128)
VB17B		KATLTADKSSSTAYMQLSSLTSEDSAVYFC	AS GYAI	DYSFAY	WGQGTLVTVSA	(SEQ ID NO: 130)
VB12B		KATLTADKSSSTAYMQLSSLTSEDSAVYFC	AS GYDI	DYSFAY	WGQGTLVTVSA	(SEQ ID NO: 132)
VB140		KATLTADKSSSTAYMQLSSLTSEDSAVYFC	AR GYGI	DYSFAY	WGQGTLVTVSA	(SEQ ID NO: 134)
VB33		KATLTVNKSSSTAYIQLHSLTSEDSAVYYC	rs GGW-	FAY	WGQGTLVTVSA	(SEQ ID NO: 136)
VB45B	•	KATLTADKSSTTAYMQLSSLTSEDSAVYFC	AR GYGI	DYSFAY	WGQGTLVTVSA	(SEQ ID NO: 138)
VB8B		KATLTADKSSSSAYMQLSSLTSEDSAVYFC	AR GYGI	DYSFAY	WGQGTLVTVSA	(SEQ ID NO: 140)
VB115		KATLTADKSSSTVYMQLSSLTSEDSAVYFC	AR GYGI	DYSFAY	WGQGTLVTVSA	(SEQ ID NO: 142)
VB14B		KATLTADKSSTTAYMQFSSLTSEDSAVYFC	AR GDGI	DYSFAY	WGQGTLVTVSA	(SEQ ID NO: 144)
VB22B		KATLTADKSSSTAYMDISSLTSEDSAVYFC	AR GYDI	DYSFAY	WGQGTLVTVSA	(SEQ ID NO: 118)
VB16		KATLTVDKSSSTAYIQLSSLTSEDSAVYYC			WGQGTLVTVSA	(SEQ ID NO: 146)
VB157		KATLTVDKSSNTAYIQFSSLTSEDSAVYYC	SSGGW	EAY	WGQGTLVTVSA	(SEQ ID NO: 148)
VB4B		KATLTADKSSSTAYMEISSLTSEDSAVYFC	AR GYDI	DYSFAY	WGQGTLVTVSA	(SEQ ID NO: 150)
VB51		KATLTADKSSSIAYMQLSSLTSEDSAVYFC	rs gydi	DYSFAY	WGQGTLVTVSA	(SEQ ID NO: 152)
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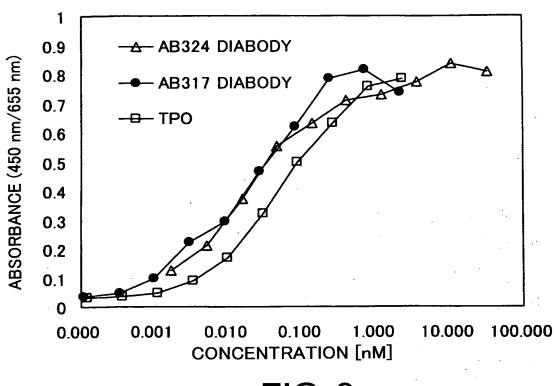
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		CDR1		CDR2
VA7	DIVMTQAAPSIPVTPGESVSISC	RSSKSLLHSNGNTYL	WFLQRPGQSPQLLIY	RMSNLAS
VA130	DIVMTQAAPSVPVTPGESVSISC	RSSKSLLHSNGNTYL	WFLQRPGQSPQLLIY	RMSNLAS
VA259	DIVMTQAAPSVPVTPGESVSISC	RSSKSLLHSNGNTYLY	WFLQRPGQSPQLLIY	RMSNLAS
VB17B	DIVMTQAAPSVPVTPGESVSISC	RSSKSLLHSNGNTYLY	WFLQRPGQSPQLLIY	RMSNLAS
VB12B	DIVMTQAAPSVPVTPGESVSISC	RSSKSLLHSNGNTYL	WFLORPGOSPOLLIY	RMSNLAS
VB140	DIVMTQAAPSVPVTPGESVSISC	RSSKSLLHSNGNTYL	WFLORPGOSPOLLIY	RMSNLAS
VB33	DIVMTQAAPSVPVTPGESVSISC	RSSKSLLYSNGNIYL	WFLQRPGQSPQLLIY	RMSNLAS
VB45B	DIVMTQAAPSVPVTPGESVSISC	RSSKSLLHSNGNTYL	WFLQRPGQSPQLLIY	RMSNLAS
VB8B	DIVMTQAAPSVPVTPGESVSISC	RSSKSLLHSNGNTYL	WFMQRPGQSPQLLIY	RMSNLAS
VB115	DIVMTQAAPSVPVTPGESVSISC	RSSKSLLHSNGNTYL	WFLQRPGQSPQLLIY	RMSNLAS
VB14B	DIVMTQAAPSVPVTPGESVSISC	RSSKSLLHSNGNTYL	WFLQRPGQSPQLLIY	RMSNLAS
VB22B	DIVMTQAAPSIPVTPGESVSISC	RSSKSLLHSNGNTYL	WFLQRPGQSPQLLIY	RMSNLAS
VB16	DIVMTQAAPSVPVTPGESVSISC	RSSKSLLYSNGNTYL	WFLQRPGQSPQLLIY	RMSNLAS
VB157	DIVMTQAAPSVSVTPGESVSISC	RSSKSLLYSNGNIYL	WFLQRPGQSPQLLIY	RMSNLAS
VB4B	DIVMTQAAPSVPVTPGESVSISC	RSSKSLLHNNGNTYL	WFLQRPGQSPQLLIY	RMSNLAS
VB51	DIVMTQAAPSLPVTPGESVSISC	RSSKSLLHSNGNTYL	Y WFLQRPGQSPQLLIY	RMSNLAS
		CDR	3	
VA7	GVPDRFSGSGSGTAFTLRISRVE	EDVGIYYC MOHLEY	PFT FGTGTKLEIK	(SEQ ID NO: 125)
VA130	GVPDRFSGSGSGTAFTLRISRVE		PYT FGSGTKLEIK	(SEQ ID NO: 127)
VA259	GAPDRFSGSGSGTAFTLRISRVET	EDVGVYYC MQHLEY	PYT FGSGTKLEIK	(SEQ ID NO: 129)
VB17B	GVPDRFSGSGSGTAFTLRISRVE	EDVGVYYC MQHLEY	PYT FGSGTKLEIK	(SEQ ID NO: 131)
VB12B	GVPDRFSGSGSGTAFTLRISRVEA	AEDVGVYYC MQHLEY	PYT FGSGTKLEIK	(SEQ ID NO: 133)
VB140	GVPDRFSGSGSGAAFTLRISRVEA	EDVGVYYC MQHLEY		(SEQ ID NO: 135)
VB33	GVPDRFSGSGSGTAFTLRISRVE	AEDVGVYYC MQHLEY	PYT FGSGTKLEIK	(SEQ ID NO: 137)
VB45B	GVPDRFSGSGSGAAFTLRISRVEA	AEDVGVYYC MQHLEY	PYT FGSGTKLEIK	(SEQ ID NO: 139)
VB8B	GVPDRFSGSGSGTAFTLRISRVE	AEDVGVYYC MQHVEY	PYT FGSGTKLEIK	(SEQ ID NO: 141)
VB115	GVPDRFSGSGSGTAFTLRISRVE	AEDVGVYYC MQHLEY		(SEQ ID NO: 143)
VB14B	GVPDRFSGSGSGTAFTLRISRVE	AEDVGVYYC MQHLEY		(SEQ ID NO: 145)
VB22B	GVPDRFSGSGSGTAFTLRISRVE	AEDVGVYYC MQHIEY		(SEQ ID NO: 120)
VB16	GVPDRFSGSGSGTAFTLTISSVE	AEDVGVYYC MQHLEY		(SEQ ID NO: 147)
VB157	GVPDRFSGSGSGTAFTLKISRVE	AEDVGVYYC MQHLEY		(SEQ ID NO: 149)
VB4B	GVPDRFSGSGSGTAFTLRISRVE			(SEQ ID NO: 151)
VB51	GVPDRFSGSGSGTAFTLRISRVEA	AEDVGVYYC MQHLEY	PYT FGSGTKLEIK	(SEQ ID NO: 153)

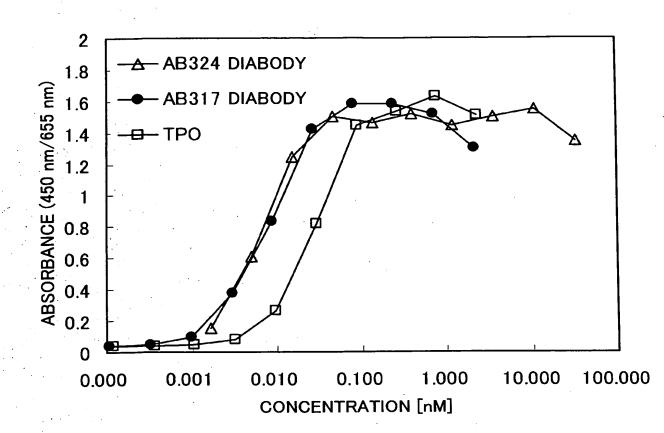




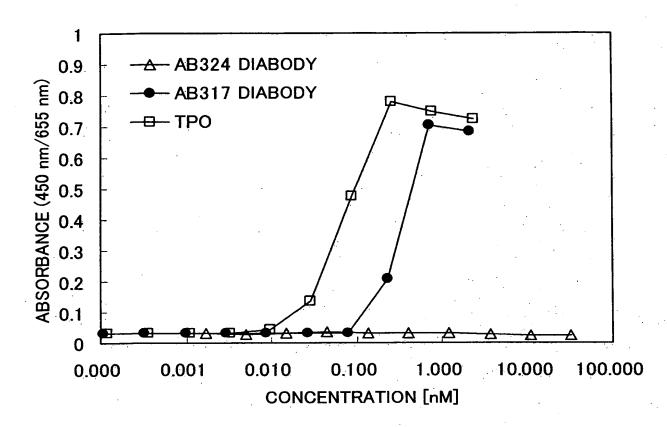
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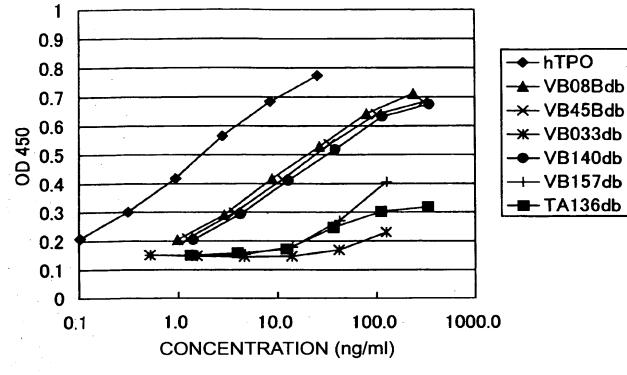
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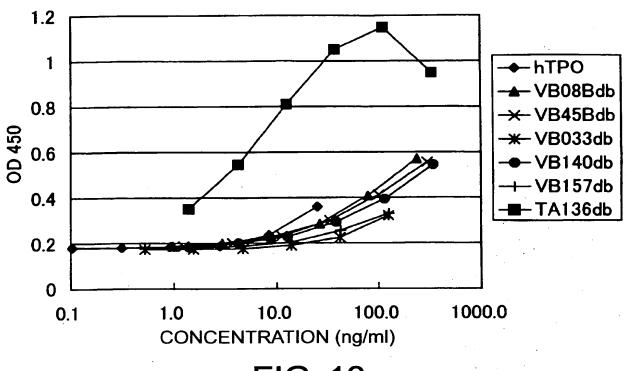
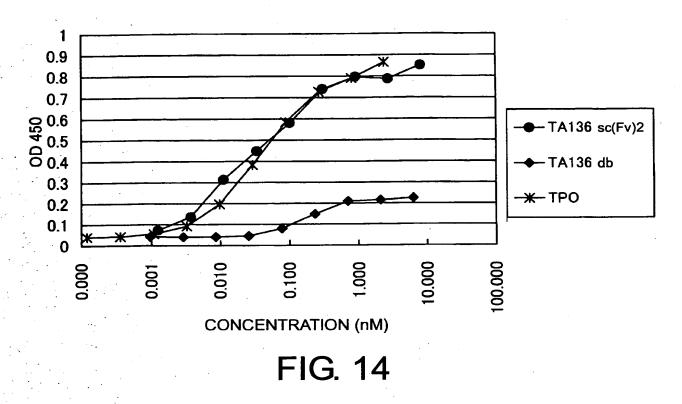
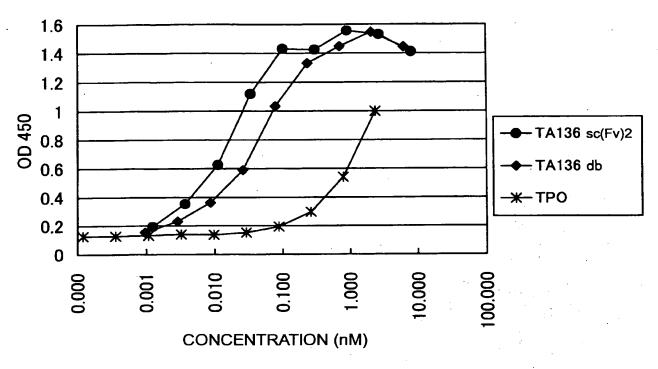


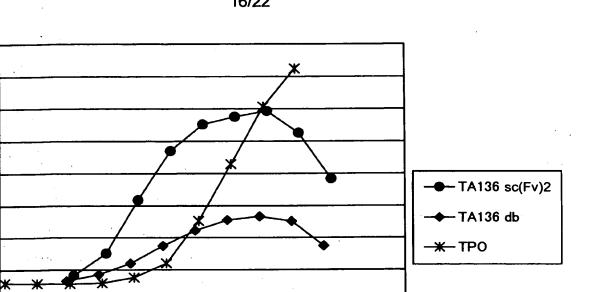
FIG. 13





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FIG. 16

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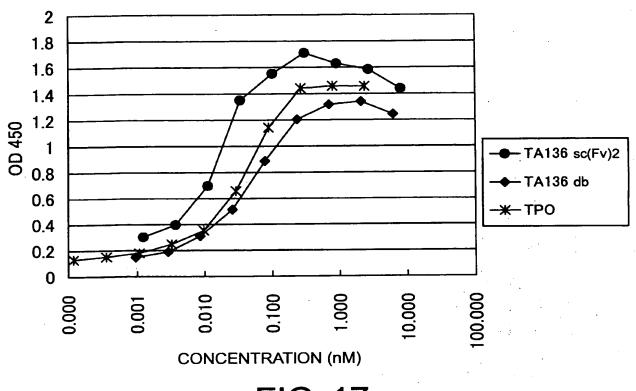
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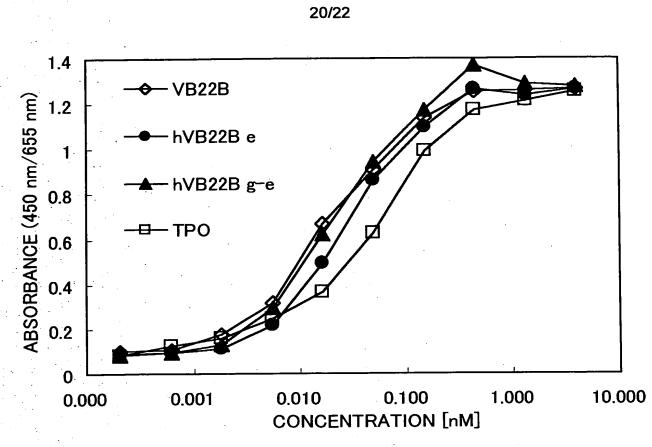


	HUMANIZED HEAVY CHAIN	VY CHAIN				
FIC	hVB22B u2-wz4 hVB22B q-wz5 hVB22B p-z hVB22B g-e hVB22B e	QVQLVQSGPEVKKPGASVKVSCKASGYTFT QVQLVQSGPEVKKPGASVKVSCKASGYTFT QVQLVQSGPEVKKPGASVKVSCKASGYTFT QVQLVQSGPEVKKPGASVKVSCKASGYTFT QVQLVQSGPEVKKPGASVKVSCKASGYTFT	ILW NMMSN IVW NMMSN IVW NMMSN IVW NMMSN	NSWMN WVRQRPGKGLEWIG RIYPGDGETIYNGKFRV NSWMN WVRQRPGKGLEWIG RIYPGDGETIYNGKFRV NSWMN WVRQRPGKGLEWMG RIYPGDGETIYNGKFRV NSWMN WVRQRPGKGLEWVG RIYPGDGETIYNGKFRV NSWMN WIRQRPGKGLEWIG RIYPGDGETIYNGKFRV	RIYPGDG RIYPGDG RIYPGDG RIYPGDG RIYPGDG	RI YPGDGET I YNGKFRV RI YPGDGET I YNGKFRV RI YPGDGET I YNGKFRV RI YPGDGET I YNGKFRV RI YPGDGET I YNGKFRV
G. 1		FR1 (CDR1	FR2		CDR2
8-1	hVB22B u2-wz4 hVB22B q-wz5 hVB22B p-z	RVTIT RVTIT RVTIT	K GYDDYS GYDDYS GYDDYS	FAY WGQGTTVT FAY WGQGTTVT FAY WGQGTTVT		(SEQ ID NO: 289) (SEQ ID NO: 295) (SEQ ID NO: 229)
	hVB22B g-e hVB22B e	RVTITADESTSTAYMELSSLRSEDTAVYYCAR GYDDYSFAY WGQGTTVTVSS RVTITADESTSTAYMELSSLRSEDTAVYYCAR GYDDYSFAY WGQGTLVTVSS	K GYDDYS	FAY WGQGTTVT	\sim	seq ID No: 256) Seq ID No: 262)
		FR3	CDR3	3 FR4		

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HUMANIZED LIGHT CHAIN	IGHT (CHAIN			
hVB22B u2-wz4 hVB22B q-wz5 hVB22B p-z hVB22B g-e hVB22B g-e	v z 4 z 5	DIVMTQSPLSLPVTPGEPASISC RSSKSLHSNGNTYLY WFLQKPGQSPQLLIY RMSNLAS DIVMTQSPLSLPVTPGEPASISC RSSKSLHSNGNTYLY WFQQKPGQAPRLLIY RMSNLAS DIVMTQSALSLPVTPGEPASISC RSSKSLHSNGNTYLY WFQQKPGQSPQLLIY RMSNLAS DIVMTQSALSLPVTPGEPASISC RSSKSLHSNGNTYLY WYLQKPGQSPQLLIY RMSNLAS DIVMTQSALSLPVTPGEPASISC RSSKSLLHSNGNTYLY WYLQKPGQSPQLLIY RMSNLAS	RSSKSLLHSNGNTYLY WFLQKPGOSPQLLIY RMSNLAS RSSKSLLHSNGNTYLY WFQQKPGOAPRLLIY RMSNLAS RSSKSLLHSNGNTYLY WFQQKPGQSPQLLIY RMSNLAS RSSKSLLHSNGNTYLY WYLQKPGQSPQLLIY RMSNLAS RSSKSLLHSNGNTYLY WYLQKPGQSPQLLIY RMSNLAS	WFLQKPGQSPQLI WFQQKPGQAPRLI WFQQKPGQSPQLI WYLQKPGQSPQLI WYLQKPGQSPQLL	IY RMSNLAS IY RMSNLAS IY RMSNLAS IY RMSNLAS IY RMSNLAS
		FRI	CDR1	FR2	CDR2
hVB22B u2-wz4	WZ 4	GVPDRFSGSGSGTDFTLKISRVEAEDVGVYYC MQHIEYPFT FGQGTKLEIK (SEQ ID NO: 291	AEDVGVYYC MOHIEYPE	FGOGTKLEIK	(SEQ ID NO: 291
hVB22B g-w25 hVB22B n-z	25	GVPDRFSGSGSGTAFTLKISRVEAEDVGVYYC MQHIEYPFT GVPDRFSGSGSGTAFTLKISRVEAEDVGVYYC MQHIEYPFT	AEDVGVYYC MOHIEYPF	T FGQGTKLEIK	
		GVPDRFSGSGSGTAFTLKISRVEAEDVGVYYC MQHIEYPFT	AEDVGVYYC MOHIEYPF'	T FGQGTKLEIK	(SEQ ID NO: 258
hVB22B e		GVPDRFSGSGSGTAFTLKISRVEAEDVGVYYC MOHIEYPFT FGOGTKLEIK	AEDVGVYYC MOHIEYPF	T FGQGTKLEIK	(SEU ID NU: 258)
		FR3	CDR3	FR4	

FIG. 18-2



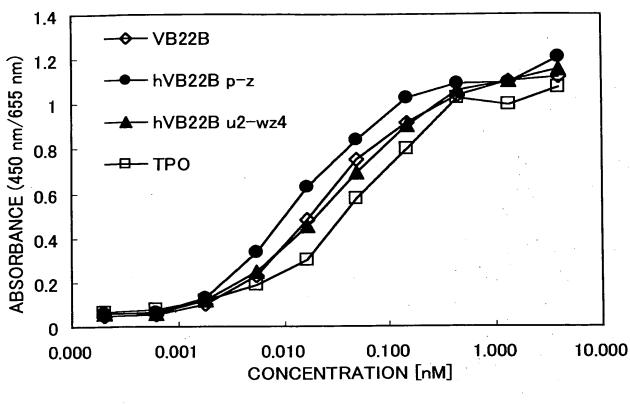


FIG. 20



